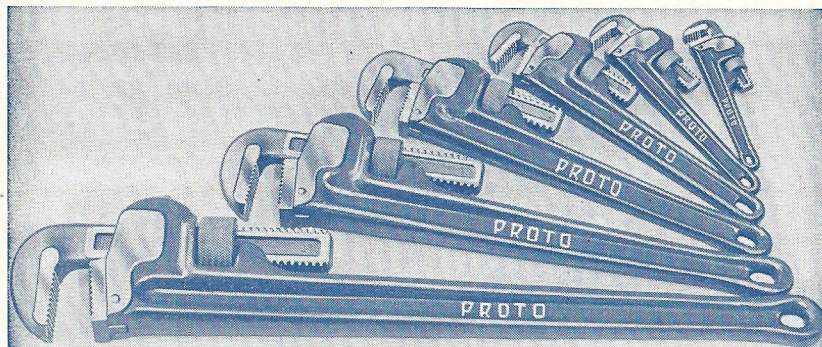


What's New in **PROTO**

Six New Heavy-Duty Pipe Wrenches Added



To supplement its line of normal-duty, Stillson-pattern pipe wrenches, PROTO recently introduced six heavy-duty types—Nos. 806HD to 824HD.

During their development, these wrenches were subjected to severe

torque testing and thorough field testing to make sure they would stand up under the demands put on them by industry and the plumbing trade. They are equal or superior to other heavy-duty wrenches now on the market.

Pullers Now Have Jaw-Positioning Springs

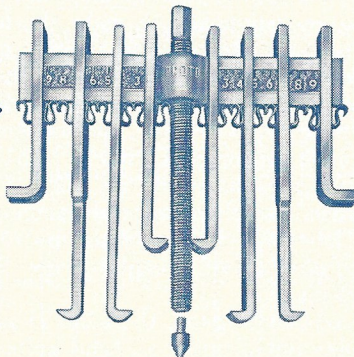
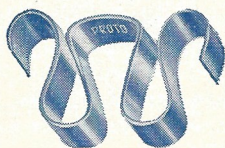
Second New Feature Is Inch Marking on Crossarm

Your customers will be happy to learn that PROTO medium-duty and heavy-duty puller jaws now come equipped with a clip spring that eliminates the once troublesome problem of puller jaws sliding out of position before the screw could be tightened.

The new spring, pictured above, is inserted in the crossarm slot and anchored by simply pushing down. When in place, it pushes up on the crossarm with just enough pressure to hold the jaw in place. However, it allows a user to slide the jaw to another position with a mere push of a finger. Spring No. 4011S fits heavy-duty jaws 4015, 4016, 4017, and 4018. Spring No. 4021S is for medium-duty jaws 4025, 4026 and 4027.

Present owners of PROTO pullers without springs can buy the new springs from you for 20 cents apiece and apply them to the jaws. It may be necessary to file the bottom part of the crossarm slot a little to accommodate the spring.

Another plus value introduced is the jaw position marking on the No. 4011 heavy-duty and



4030B Set

No. 4021 medium-duty crossarms. Inch markings in the crossarm panels indicate where to position a pair of jaws to space them the desired number of inches apart. The large markings tell at a glance where to place the jaws for a given size gear, wheel, bearing, sprocket or pulley.

Medium-duty puller sets 4020A and 4020B and heavy-duty puller sets 4010B, 4010C, 4030A and 4030B all include the marked crossarms and the new jaw springs.

In telling your customers about these additional time and temper savers, you can refer to them as bonus features because they are offered with no increase in the prices of the jaws, crossarms or sets.

Though built to tackle rugged jobs, they are engineered for light weight and proper balance to prevent fatigue. I-beam construction is used in the handles for maximum strength. Handles are made from alloy ductile iron, and are painted a bright red for added sales appeal.

The jaws are forged from special alloy steel, are properly heat-treated, and have precision milled teeth for positive gripping action. The hook jaw is marked to show sizes so your customers can easily tell the jaw opening necessary for various jobs.

Here is catalog information on the six sizes offered:

No.	User Net Price*	Lgth.	Maximum Pipe Size	Wt., Lbs.
806HD	2.18	6"	3/4"	.45
808HD	2.53	8"	1"	.85
810HD	3.28	10"	1 1/2"	1.80
814HD	4.42	14"	2"	3.5
818HD	6.32	18"	2 1/2"	5.8
824HD	10.92	24"	3"	9.6

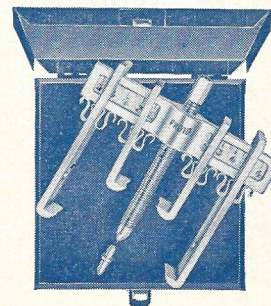
*Prices subject to change without notice.

To help you sell these new heavy-duty pipe wrenches, a special promotional piece was prepared. It illustrates the six new models, points out their many outstanding features, and gives complete catalog information. A merchandiser panel, No. 8, is also available for displaying all sizes.

Your customers will prefer heavy-duty pipe wrenches with the famous PROTO professional quality, so be sure to order the No. 8 merchandiser panel and an ample back-up stock.



Redesigned Puller Boxes Hold Assembled Sets

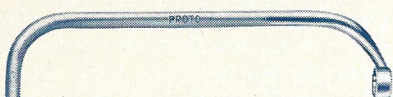


4020A puller set in larger 4029 box.

Box No. 4019, which holds heavy-duty puller set No. 4030A, and box No. 4029, for medium-duty set No. 4020A, are now large enough to hold the assembled sets. The larger size permits a set to be stored in its box after use without removing the screw from the crossarm. This plus feature is especially important for the new sets provided with jaw-positioning springs.

PROTO means PROfessional TOOLS

6540 Wrench Speeds Distributor Repairs



User Net Price—\$2.10*

Another tool introduced recently to make your customers' work easier is the new No. 6540 distributor wrench.

Hold-down clamps on the distributors of late model Fords, Mercurys and Lincolns with V-8 overhead valve engines are particularly troublesome to reach, due to the closeness of the firewall. With the 6540, this job is no longer a prob-

lem because the offset shank permits easy seating and turning of the nuts.

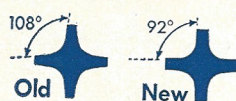
In addition to this difficult application, hard-to-reach coil clamps, valve cover nuts and carburetor base nuts also become easy targets for the new wrench.

The 6540 has a 12-point, $\frac{1}{2}$ " box opening and is $9\frac{1}{4}$ " long. It is forged from special alloy steel for extra strength.

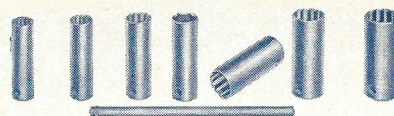
With the fine sales record Ford Motor Company has chalked up this year, the demand should be unusually high for the 6540 distributor wrench.

Flutes Strengthened on All #1 Phillips Bits

To fully conform to new specifications issued by the manufacturer of Phillips screws, PROTO redesigned its screwdrivers and sockets with #1 bits. As shown in the cross-sectional



drawings of the old and new bits, the flutes were enlarged and strengthened by reducing the angle between flute edges from 108° to 92°. The Phillips #1 bit tools affected are screwdrivers 9682 and 9782, and $\frac{1}{4}$ " drive sockets 4737 and 4737L.



5300E Has Socket for Recessed Spark Plugs

User Net Price—\$11.05*

You can now offer your customers a much more useful No. 5300E spark plug socket set because it has been expanded to include socket No. 5347H. This $\frac{13}{16}$ " opening deep socket is perfect for removing and replacing 14-mm. spark plugs in several cars—especially Buick and Nash models with recessed plugs. The thin-wall socket has a diameter of only $\frac{13}{64}$ " and provides the necessary clearance between the plug and motor head. Extra strength was gained by using a 6-point opening.

In addition to the 5347H, the set includes a No. 5300PH pin handle and sockets 5343, 5344, 5347, 5348, 5349 and 5351, with openings of $\frac{5}{8}$ ", $\frac{11}{16}$ ", $\frac{13}{16}$ ", $\frac{7}{8}$ ", $\frac{15}{16}$ " and $1\frac{1}{2}$ ".

Utility of 6435 Torquer Adapter Increased

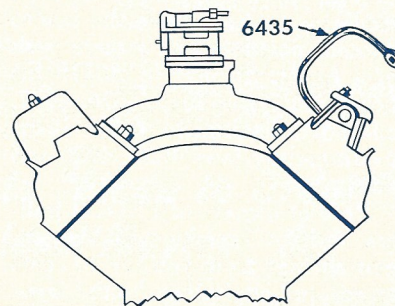
To keep abreast of the latest engine designs and to make the tool more versatile, the No. 6435 torque wrench adapter was modified three ways. The length was increased from $7\frac{5}{16}$ " to $7\frac{1}{2}$ ", the sweep or offset was opened from 3" to $3\frac{1}{4}$ ", and the shape of the offset was altered to clear more obstructions. The $\frac{11}{16}$ " box opening and $\frac{1}{2}$ " square drive opening were unchanged.

As redesigned, the 6435 is suitable for torquing all head bolts on 1954 Ford and Mercury overhead valve engines except the rear head bolt of the left bank on cars equipped with power brakes. This bolt can be reached by using an $\frac{11}{16}$ " opening socket wrench, like the No. 7422H, and a short extension, like the $2\frac{1}{2}$ " No. 5460. The modified adapter is still suitable, of course, for torquing Studebaker and Pontiac head bolts.

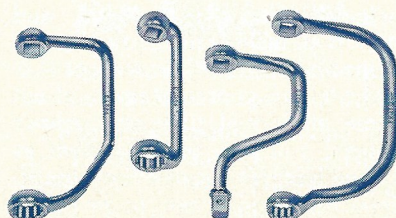
The illustration of the No. 6435

is accompanied by the other three available adapters to show how it compares in design with the others and to remind you that four styles are offered. The No. 6420, with $\frac{3}{4}$ " opening and wide sweep, is for all Chevrolets. The No. 6425, with $\frac{3}{4}$ " opening and close sweep, is for all Chevrolet cars and trucks and for several Buicks—1935-52 Series 60, 70, 80 and 90, and 1941-52 Series 40 and 50. The No. 6430, with $\frac{1}{2}$ " square male plug, is for 1950-53 Chevrolet "Power-Glide" models and other general uses.

When you sell a PROTO Torquer to a mechanic, ask him if he needs one or more of these adapters to simplify his work.



For all "under the rocker arm shaft" applications, the No. 6435 adapter should be brought in from the intake manifold side, as shown, and not from the exhaust manifold side.



6420 6425 6430 6435

Nine More Step-Cut Feeler Gauges Offered

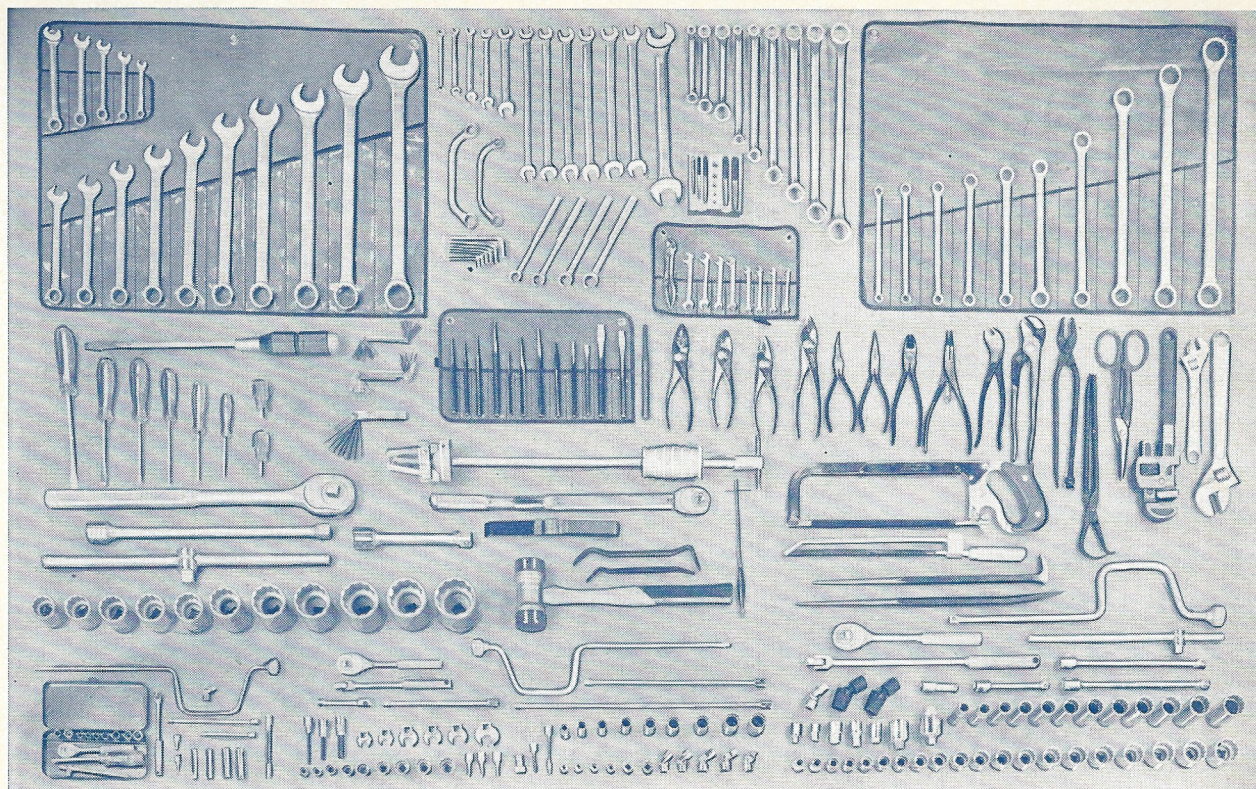
User Net Price—\$0.29* Each

Specification of closer tolerances in automobiles, machines and other equipment during recent years has greatly increased the demand for step-cut feeler gauges. Having two thicknesses, they are used for "go and no-go" tests and thus provide an accurate means of checking tolerances in manufacturing, inspection and repair operations. Another reason for their growing popularity is that use of one gauge with two thicknesses is much faster and more economical than using two separate gauges.

By expanding our line from 8 to 17 gauges, thicknesses are now available from .004" to .022". The nine gauges added are Nos. 012/14, 013/15, 014/16, 015/17, 016/18, 017/19, 018/20, 019/21 and 020/22. The catalog numbers indicate the thicknesses in thousandths of an inch. When you secure your stock of these new gauges, remind your customers of the many sizes you can supply.

*Prices subject to change without notice.

PROTOmeansPROfessionalTOOLS



9901 "Maintenance Master" Is Super Industrial Repair Set

User Net Price—\$498.53*

Including 264 highly useful items, the new No. 9901 "Maintenance Master" is a very complete

super set for all types of factory, utility, railroad, power plant, refinery and other industrial maintenance. It is perfect also for mechan-

ics who repair automobiles, trucks, buses, aircraft, tractors, farm implements, marine engines, construction equipment, etc. Contents:

NO.	DESCRIPTION
000A	Feeler Gauge Set
000D	Ignition Gauge Set
000K	Spark Plug Gauge Set
2	Set of 3 Cold Chisels, Cape Chisel, Diamond Point Chisel, 3 Starting Punches, 3 Pin Punches & Center Punch in Kit
202	Thin Nose Plier, 6"
203	Bent Nose Plier, 7"
207	Diagonal Plier, 7"
215	Brake Spring Plier, 12"
216	Bendix Brake Plier, 11 1/4"
218	Battery Plier, 8"
225	Needle Nose Plier, 6"
226	Needle Nose Plier, 6"
243	Groove Joint Plier, 9 1/2"
246	Slip Joint Plier, 6"
250	Lock-Ring Plier, 8"
278	Slip Joint Plier, 8"
310	Duckbill Snip, 10"
344	Low-Frame Hacksaw
352	Adjustable Hacksaw
708	Adjustable Wrench, 8"
712	Adjustable Wrench, 12"
814	Pipe Wrench, 14"
1392	Plastic-Tip Hammer
2006	Brake Adjuster
2007	Brake Adjuster
2120	Pry Bar, 18"
2126	Rolling Head Bar, 16"
2301	Muffler Remover
2335	Valve Guide Cleaner
2337	Flexible Carbon Scraper
4056	Slide-Hammer Puller Set
4977	Allen-Type Wrench Set
6016	Torquer, 150 Ft.-Lb., 1/2"
9500A	Set of 5 Pipe & Screw Extractors with Rack

*Prices subject to change.

NO.	DESCRIPTION
	Wrenches
1100M	Set of 10 Box Wrenches (5/16" to 1 1/8" Ops.) in Kit
1200F	Set of 15 Comb. Box & Open End Wrenches (5/16" to 1 1/4" Ops.) in Kit
1725	Obstruction Box, 7/16" x 1/2"
1730	Obstruction Box, 9/16" x 5/8"
3016	Open End, 3/16" x 1/4"
3018	Open End, 1/4" x 3/16"
3020	Open End, 5/16" x 3/8"
3021	Open End, 3/8" x 7/16"
3025	Open End, 1/2" x 9/16"
3026	Open End, 1/2" x 9/16"
3200D	Plier & 8 Midget Open End Wrenches (1 3/64" to 1 1/32" Ops.) in Kit
3425 (2)	Tappet, 7/16" x 1/2"
3426 (2)	Tappet, 1/2" x 9/16"
3430 (2)	Tappet, 9/16" x 5/8"
3714	Flare Nut, 7/16" Opening
3716	Flare Nut, 1/2" Opening
3718	Flare Nut, 9/16" Opening
3720	Flare Nut, 5/8" Opening
8160	Offset Box, 3/8" x 7/16"
8161	Offset Box, 1/2" x 9/16"
8162	Offset Box, 5/8" x 1 1/16"
8180	Lg. Offset Box, 3/4" x 7/16"
8181	Lg. Offset Box, 1/2" x 9/16"
8182	Lg. Offset Box, 5/8" x 1 1/16"
8183	Lg. Offset Box, 3/4" x 25/32"
8184	Lg. Offset Box, 1 3/16" x 7/8"
8185	Lg. Offset Box, 1 1/16" x 1"
	1/4" Square Drive Items
4700B	Set with 9 Sockets (7/32" to 7/16" Ops.), 3 Handles & Steel Box
4708L	Deep Skt., 6-Pt., 1/4" Op.
4710L	Deep Skt., 6-Pt., 5/16" Op.
4712L	Deep Skt., 6-Pt., 3/8" Op.

NO.	DESCRIPTION
	1/4" Sq. Drive Items—Contd.
4714L	Deep Skt., 6-Pt., 7/16" Op.
4737	Phillips Socket, #1 Bit
4738	Phillips Socket, #2 Bit
4760	Extension, 3 1/2"
4761	Extension, 6"
4765	Flexible Extension, 4"
4766	Hinge Handle, 5 3/8"
4770	Universal Joint
4780	Speed Handle, 16"
	3/8" Square Drive Items
4914	Crowfoot Wrench, 7/16"
4916	Crowfoot Wrench, 1/2"
4918	Crowfoot Wrench, 9/16"
4920	Crowfoot Wrench, 5/8"
4922	Crowfoot Wrench, 1 1/16"
4924	Crowfoot Wrench, 3/4"
4990 3/16L	Allen Skt., 3/16" Bit
4990 1/4L	Allen Skt., 1/4" Bit
4990 3/8L	Allen Skt., 3/8" Bit
5000B	Set of 9 Deep Sockets (3/8" to 7/8" Ops.)
5200AA	Set with 7 Sockets (3/8" to 3/4" Ops.), 3 Han- dles & 3 Attachments
5208S	Socket, 8-Pt., 1/4" Op.
5209S	Socket, 4-Pt., 9/32" Op.
5210S	Socket, 8-Pt., 5/16" Op.
5212S	Socket, 8-Pt., 3/8" Op.
5214S	Socket, 8-Pt., 7/16" Op.
5216S	Socket, 8-Pt., 1/2" Op.
5226	Socket, 12-Pt., 1 3/16" Op.
5228	Socket, 12-Pt., 7/8" Op.
5240	Screwdriver Skt., 5/16" Bit
5241	Phillips Socket, #2 Bit
5242	Phillips Socket, #3 Bit
5243	Phillips Socket, #4 Bit
5244	Screwdriver Skt., 3/8" Bit
5246	Screwdriver Skt., 1/4" Bit
5274	Univ. Skt., 12-Pt., 7/16" Op.

NO.	DESCRIPTION
	3/8" Sq. Drive Items—Contd.
5275	Univ. Skt., 12-Pt., 1/2" Op.
5276	Univ. Skt., 12-Pt., 5/16" Op.
5277	Univ. Skt., 12-Pt., 3/8" Op.
5253	Adapter, 3/8" F., 1/2" M.
5254	Adapter, 1/2" F., 3/8" M.
5261	Extension, 7 1/2"
5263	Extension, 17 3/16"
	1/2" Square Drive Items
5300B	Set of 9 Deep Sockets (1/2" to 1" Ops.)
5400AA	Set with 10 Sockets (7/16" to 1" Ops.), 3 Han- dles & 3 Attachments
5348	Deep Skt., 12-Pt., 7/8" Op.
5352	Deep Skt., 12-Pt., 1 1/16" Op.
5353	Deep Skt., 12-Pt., 1 1/8" Op.
5412	Socket, 12-Pt., 3/8" Op.
5419	Socket, 12-Pt., 19/32" Op.
5421	Socket, 12-Pt., 2 1/32" Op.
5425	Socket, 12-Pt., 25/32" Op.
5429	Socket, 12-Pt., 29/32" Op.
5431	Socket, 12-Pt., 3 1/32" Op.
5434	Socket, 12-Pt., 1 1/16" Op.
5436	Socket, 12-Pt., 1 1/8" Op.
5438	Socket, 12-Pt., 1 3/16" Op.
5440	Socket, 12-Pt., 1 1/4" Op.
6522	Spec. Skt., 6-Pt., 7/16" Op.
6523	Spec. Skt., 6-Pt., 9/16" Op.
7478	Power Universal Socket, 6-Pt., 1 1/16" Op.
7479	Power Universal Socket, 6-Pt., 3/4" Op.
5447	Ratcheting Attachment
5453	Adapter, 3/4" F., 1/2" M.
5460	Extension, 2 1/2"
5463	Extension, 10"
5485	Sliding Bar Handle, 13"

Listing of No. 9901 Set
Continued on Next Page

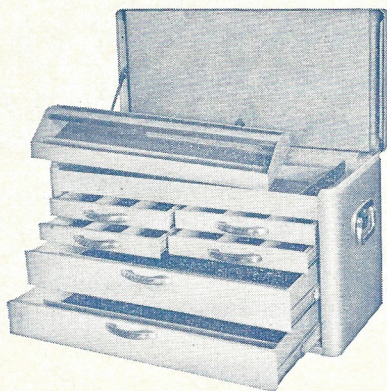
**Contents of No. 9901
"Maintenance Master"
Set—Continued**

NO.	DESCRIPTION
3/4" Square Drive Items	
5536	Socket, 12-Pt., 1 1/8" Op.
5540	Socket, 12-Pt., 1 1/4" Op.
5542	Socket, 12-Pt., 1 3/16" Op.
5544	Socket, 12-Pt., 1 3/8" Op.
5546	Socket, 12-Pt., 1 7/16" Op.
5548	Socket, 12-Pt., 1 1/2" Op.
5552	Socket, 12-Pt., 1 5/8" Op.
5556	Socket, 12-Pt., 1 3/4" Op.
5558	Socket, 12-Pt., 1 13/16" Op.
5560	Socket, 12-Pt., 1 7/8" Op.
5564	Socket, 12-Pt., 2" Op.
5649	Reversible Ratchet, 20"
5653	Adapter, 1/2" F., 3/4" M.
5661	Extension, 8"
5663	Extension, 16"
5685	Sliding Bar Handle, 18 1/2"
Plastic-Handle Screwdrivers	
9604	Rd. 4" Blade, 1/4" Bit
9606	Rd. 6" Blade, 5/16" Bit
9622	Rd. 2 1/2" Blade, 1/8" Bit
9632	Rd. 4" Blade, 3/16" Bit
9651	Sq. 1" Blade, 7/32" Bit
9671	3/16" Blade, Phillips #2 Bit
9682	3" Blade, Phillips #1 Bit
9684	4" Blade, Phillips #2 Bit
Wood-Handle Screwdriver	
9710	Sq. 10" Blade, 13/32" Bit

"Maintenance Master" Set Available with a Tool Chest or a "Toolmobile" Cabinet

User Net Price of No. 9902 Set—\$561.03*
User Net Price of No. 9903 Set—\$625.23*

When the 264-item "Maintenance Master" is furnished with a No. 9997 Master Tool Chest, the set is identified as No. 9902. If it is supplied with a No. 9968A "Toolmobile" Mobile Cabinet, the set is No. 9903.



Left—
No. 9997
Master
Tool
Chest.



Right—
No.
9968A
"Tool-
mobile"
Cabinet.

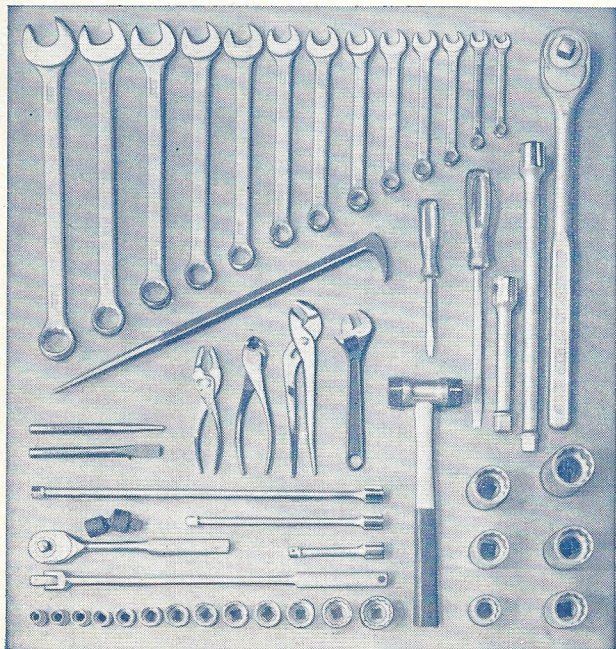
9904 "Diesel Master" Is an Extremely Versatile 51-Tool Set

User Net Price—\$129.55*

Very extensive field research preceded final selection of the tools

in the No. 9904 "Diesel Master" Set. The 51 items included are the most-needed tools for the repair of

diesel engines in locomotives, power plants, factories, trucks, ships, etc. Contents:



NO.	DESCRIPTION
50 1/2	Starting Punch, 1/4" Pt.
86A 1/2	Cold Chisel, 5/8" Cut
202	Thin Nose Plier, 6"
209	Diagonal Plier, 7"
240	Slip Joint Plier, 9"
708S	Adjustable Wrench, Semi-Finish, 8"
1391	Plastic-Tip Hammer
2130	Rolling Head Bar, 18"
Combination Box & Open End Wrenches	
1214	7/16" Openings
1216	1/2" Openings
1218	9/16" Openings
1220	5/8" Openings
1222	1 1/16" Openings
1224	3/4" Openings
1226	13/16" Openings
1228	7/8" Openings
1230	15/16" Openings
1232	1" Openings
1234	1 1/16" Openings
1236	1 1/8" Openings
1240	1 1/4" Openings
1/2" Square Drive Items	
5414	Socket, 12-Pt., 7/16" Op.
5416	Socket, 12-Pt., 1/2" Op.
5418	Socket, 12-Pt., 9/16" Op.
5420	Socket, 12-Pt., 5/8" Op.

NO.	DESCRIPTION
1/2" Sq. Drive Items—Contd.	
5422	Socket, 12-Pt., 1 1/16" Op.
5424	Socket, 12-Pt., 3/4" Op.
5426	Socket, 12-Pt., 13/16" Op.
5428	Socket, 12-Pt., 7/8" Op.
5430	Socket, 12-Pt., 15/16" Op.
5432	Socket, 12-Pt., 1" Op.
5434	Socket, 12-Pt., 1 1/16" Op.
5436	Socket, 12-Pt., 1 1/8" Op.
5440	Socket, 12-Pt., 1 1/4" Op.
5449	Reversible Ratchet, 10 1/4"
5461	Extension, 5"
5463	Extension, 10"
5464	Extension, 18"
5468	Hinge Handle, 18"
7470	Power Universal Joint
3/4" Square Drive Items	
5534	Socket, 12-Pt., 1 1/16" Op.
5542	Socket, 12-Pt., 1 3/16" Op.
5544	Socket, 12-Pt., 1 3/8" Op.
5546	Socket, 12-Pt., 1 7/16" Op.
5548	Socket, 12-Pt., 1 1/2" Op.
5552	Socket, 12-Pt., 1 5/8" Op.
5649	Reversible Ratchet, 20"
5661	Extension, 8"
5663	Extension, 16"
Plastic-Handle Screwdrivers	
9804	Sq. 4" Blade, 1/4" Bit
9808	Sq. 8" Blade, 3/8" Bit

New 9972 Tool Box Is "Made to Order" for Holding the "Diesel Master" Set

User Net Price of 9905 Set—\$140.50*
User Net Price of 9972 Box—\$10.95*

To provide a handy container for the "Diesel Master" Set, described above, the No. 9972 Tool Box was added. When furnished with this box, the "Diesel Master" Set No. is

9905. The new tool box (at left) measures 23" x 8" x 9", is made of heavy-gauge steel, has a full-length hinge for the lid, and is finished in red. Its removable tote tray has three compartments.

*Prices subject to change without notice.